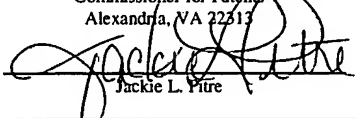


PATENT  
5838-00204

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Application No.: 10/800,461  
Confirmation No.: 8678  
Filing Date: March 15, 2004  
Inventors: Murphy et al.  
Title: SYSTEM AND METHOD  
FOR FACILITATING  
CARDIAC INTERVENTION

§ Examiner: Unknown  
§ Art Unit: 3762  
§ Atty. Dkt. No.: 5838-00204/EBM  
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CERTIFICATE OF MAILING UNDER 37 C.F.R. §1.8	
DATE OF DEPOSIT:	7/27/04
I hereby certify that this correspondence is being deposited with the United States Postal Service with sufficient postage as first class mail on the date indicated above and is addressed to:	
Commissioner for Patents Alexandria, VA 22313	
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INFORMATION DISCLOSURE STATEMENT

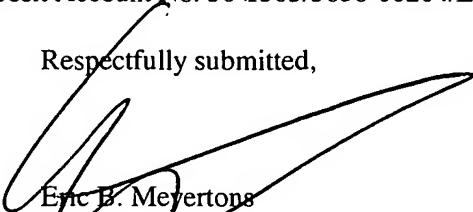
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Sir:

It is respectfully requested that this Information Disclosure Statement be entered and the documents listed on attached Form PTO-1449 (A1-A28) be considered by the Examiner and made of record.

Should any additional fees be required, the Commissioner is authorized to charge said fees to Meyertons, Hood, Kivlin, Kowert & Goetzel, P.C. Deposit Account No. 50-1505/5838-00204/EBM.

Respectfully submitted,

  
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Date: 7/27/04

**Form PTO-1449** (modified)  
List of Patents and Publications  
For Applicant's Information  
Disclosure Statement  
(Use several sheets if necessary)

ATTY. DKT. NO. 5838-00204

APPLICANT: Murphy et al.

FILING DATE: March 15, 2004

SERIAL NO. 10/800,461

ART NO. 3762

CONFIRMATION NO. 8678

**U.S. PATENT DOCUMENTS**

EXAM. INITIALS	REF. DES.	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE IF APPROPRIATE

**FOREIGN PATENT DOCUMENTS**

EXAM. INITIALS	REF. DES.	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB CLASS	TRANSLATION YES/NO

**OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)**

	A1	F. P. van Ruge et. al., "Magnetic Resonance Imaging during dobutamine Stress for detection and localization of coronary artery disease" <i>Circulation</i> 1994; 90, No 1, pp. 127-138
	A2	Antman, Elliott M. et al., "Abciximab Facilitates the Rate and Extent of Thrombolysis- Results of the Thrombolysis in Myocardial Infarction (TIMI) 14 Trial", <i>Circulation</i> , Jun. 1, 1999, pp. 2720-2732.
	A3	Keegan, Jennifer et al., "Interleaved Spiral Cine Coronary Artery Velocity Mapping", <i>Magnetic Resonance in Medicine</i> , vol. 43, 2000, pp. 787-792.
	A4	Medina, R. et al., "Reconstruction of Three-Dimensional Shapes in Biplane Angiography: a Fuzzy and Evolutionary Approach ", <i>Computers in Cardiology</i> , Hannover, Germany, Sep. 1999, 26, pp. 663-666.
	A5	Miles, K.A., "Measurement of tissue perfusion by dynamic computed tomography", <i>The British Journal of Radiology</i> , 1991, vol. 64, No. 761, pp. 409-412.
	A6	Mochizuki, Teruhito et al., "Demonstration of Acute Myocardial Infarction by Subsecond Spiral Computed Tomography-Early Defect and Delayed Enhancement", <i>Circulation</i> , 1999, 99, pp. 2058-2059.
	A7	Rumberger, John A. et al., "Use of Ultrafast Computed Tomography to Quantitate Regional Myocardial Perfusion: A Preliminary Report", <i>Journal of the American College of Cardiology</i> , vol. 9, no. 1, Jan. 1987, pp. 59-69.
	A8	J.M. Guccione et al., "Passive Material Properties of Intact Ventricular Myocardium Determined from a Cylindrical Model" <i>Journal of Biomechanical Engineering</i> , vol. 113, Feb. 1991.
	A9	K.D. Costa et al., "A Three-Dimensional Finite Element Method for Large Elastic Deformations of Ventricular Myocardium: I-Cylindrical and Spherical Polar Coordinates" <i>Journal of Biomechanical Engineering</i> , Nov. 1996, vol. 118, pp. 452-463.
	A10	P.J. Hunter et al., "Modeling the mechanical properties of cardiac muscle" <i>Progress in Biophysics &amp; Molecular Biology</i> , 69 (1998) pp. 289-331.
	A11	R. Mazhari et al., "Integrative Models for Understanding the Structural Basis of Regional Mechanical Dysfunction in Ischemic Myocardium" <i>Annals of Biomedical Engineering</i> , 2000, vol. 28, pp. 979-990.
	A12	Hurst et al., "Hurst's The Heart, Arteries and Veins, 9th Edition" McGraw-Hill, 1998, Chapters 18-20, pp. 623-684.
	A13	Y. Sun et al., "A comprehensive model for right-left heart interaction under the influence of pericardium and baroreflex" <i>The American Journal of Physiology</i> , 1997, pp. H1499-H1515.

EXAMINER:

DATE CONSIDERED:

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to the patent owner.

Information Disclosure Statement--PTO 1449 (modified)

<b>Form PTO-1449</b> (modified) List of Patents and Publications For Applicant's Information Disclosure Statement (Use several sheets if necessary)	ATTY. DKT. NO. 5838-00204	SERIAL NO. 10/800,461
	APPLICANT: Murphy et al.	ART NO. 3762
	FILING DATE: March 15, 2004	CONFIRMATION NO. 8678

### U.S. PATENT DOCUMENTS

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### FOREIGN PATENT DOCUMENTS

EXAM. INITIALS	REF. DES.	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB CLASS	TRANSLATION YES/NO

### OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

	A14	Makhijani, V. B. et al., "Three-dimensional coupled fluid - Structure simulation of pericardial bioprosthetic aortic valve function" <i>ASAIO Journal</i> , 1997, 43:M387-M392.
	A15	Olszewski, M. E., "Segmentation of Cardiac Magnetic Resonance Images Using Multidimensional Active Appearance Models", Department of Electrical and Computer Engineering, The University of Iowa, April, 2001.
	A16	Di Donato, M. et al. "Regional Myocardial performance of non-ischaeic zones remote from anterior wall left ventricular aneurysm - Effects of aneurysmectomy", <i>European Heart Journal</i> , (1995) 16, 1285-1292.
	A17	F.H. Sheehan et. al., "Advantages and applications of the centerline method for characterizing regional ventricular function" <i>Circulation</i> 1986; 74, no. 2, pp. 293-305.
	A18	T.F. Cootes and C. J. Taylor, "Statistical Models of Appearance for Computer Vision" July 10, 2000 <a href="http://cvl.umiacs.umd.edu/users/nanda/Academics/Academic.html">http://cvl.umiacs.umd.edu/users/nanda/Academics/Academic.html</a>
	A19	E. R. Holman et. al., "Detection and Quantification of Dysfunctional Myocardium by Magnetic Resonance Imaging" <i>Circulation</i> 1997; Vol. 95, No. 4; pp. 924-931.
	A20	van der Geest, Rob J. et al., "Comparison Between Manual and Semiautomated Analysis of Left Ventricular Volume Parameters from Short-Axis MR Images", <i>Journal of Computer Assisted Tomography</i> , vol. 21, no. 5, 1997, pp. 756-765.
	A21	Weiss, Robert M. et al., "Evaluation of Cardiovascular Structure and Function with Electron-Beam Computed Tomography", <i>Marcus Cardiac Imaging</i> , 1996, Vol. 2, Chapt. 53: 820-828.
	A22	Dai, Xiaolong et al., "Left-Ventricle Boundary Detection from Nuclear Medicine Images", ( <a href="http://www4.ncsu.edu/eos/users/w/wes/homepage/daiHTML/cmrg_JDI.fm3.html#FN1">http://www4.ncsu.edu/eos/users/w/wes/homepage/daiHTML/cmrg_JDI.fm3.html#FN1</a> ) <i>Journal of Digital Imaging</i> , Vol. 11, No. 1, Feb., 1998.
	A23	nerac.com "RetroSearch: Active Appearance Models", Question No. 1199989.009, Sept. 15, 2003.

EXAMINER:

DATE CONSIDERED:

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to the patent owner.

EXAM. INITIALS	REF. DES.	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE IF APPROPRIATE
	A24	10/135,465	4/30/2002	Murphy et al.			
	A25	10/800,433	3/15/2004	Murphy et al.			
	A26	10/768,403	1/30/2004	Murphy et al.			
	A27	10/769,745	1/30/2004	Suresh et al.			
.	A28	U.S. Patent Application entitled "A System and Method for Facilitating Cardiac Intervention	1/30/2004	Murphy et al.			

EXAM. INITIALS	REF. DES.	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB CLASS	TRANSLATION YES/NO

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Information Disclosure Statement--PTO 1449 (modified)